

AVERAGE BUILDING ELEVATION

SCALE 22X34 1" = 10'-0" SCALE 11X17 1" = 20'-0"

| | | AVERAGE BUILDING | i E | LE\ | VATION CALCULATION | |
|---|----|------------------|-----|-----|---------------------|----------|
| | SE | GMENT LENGTH | | | MID POINT ELEVATION | X*x |
| А | = | 6.25 | а | = | 268.38 | 1677.375 |
| В | = | 6 | b | = | 268.7 | 1612.2 |
| С | = | 18.42 | с | = | 270 | 4973.4 |
| D | = | 18.5 | d | = | 270.95 | 5012.575 |
| Е | = | 16.25 | e | = | 271.71 | 4415.288 |
| F | = | 9.58 | f | = | 272.39 | 2609.496 |
| G | = | 7 | g | = | 272.24 | 1905.68 |
| Н | = | 25 | h | = | 272.15 | 6803.75 |
| I | = | 33.83 | i | = | 271 | 9167.93 |
| J | = | 47.08 | j | = | 268.95 | 12662.17 |
| | | 187.91 | | | | 50839.86 |
| | | | | | | |
| | | Formula 1: | | | | |
| | | 50839.8597 | | | 270 5542062 | |
| | | 187.91 | _ | | 270.3343003 | |



| GENERAL NOTES CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK. WORK SHALL COMPLY WITH THE FOLLOWING CODES: | FOUNDATION LOCATION: PROPERTY CORNERS MUST BE DETERMINED AND INDICATED ON SITE FOR FOUNDATION SURVEY MAY BE REQUIRED. FENCE LOCATIONS WILL N AS ESTABLISHING PROPERTY CORNERS. |
|--|--|
| 2018 WASHINGTON ENERGY CODE | <u>OTHER REQUIREMENTS:</u> a. GUARDRAILS: MIN 36" HT. MUST BE LESS THAN BETWEEN INTERMEDIATE MEMBERS (42" MIN. HT |
| AIR SEALING: 1. ALL PLUMBING, ELECTRICAL, AND HVAC PENETRATIONS IN FLOOR. | EXTERIOR). b. FOORINGS: BOTTOM MIN. 12" ABOVE EXPOSED GI |
| WALLS, AND CEILINGS ARE CAULKED AND SEALED.2. WHERE PENETRATIONS NEED A FIRESTOP, DISCUSS WITH BUILDING OFFICIAL. | SPACE, TOP OF FOUNDATION WALL MIN. 6" ABO c. CONRETE SLABS ON GRADE: 3-1/2" MIN. THICKNE d. PIER BLOCKS: MIN. 12" X 12" SIZE; RESTING ON |
| ELECTRICAL OUTLET AND LIGHT SWITCH BOXES ON EXTERIOR WALLS MUST BE SEALED AT THE BACK OF THE RECEPTACLE OR SEALED WITH FACEPLATE GASKETS. | MIN. 12" BELOW GRADE. e. Foundation Walls: provide one (1) #4 rebar and at all windows/door openings. limit 4 |
| SEAL RIM JOIST BETWEEN HEATED FLOORS OR USE PRODUCT LIKE "TYVEK" ON EXTERIOR. VAPOR BARRIER SHALL BE EITHER FACE STAPLED BATTS, 4 MIL. | f. FOUNDATION ANCHOR BOLTS: MIN. 1/2" × 10", 6 I MAX. WITH TWO (2) BOLTS PER PIECE OF PLAT ONE (1) BOLT WITH 12" AT END OF EACH PIECE |
| VISQUEEN OR AN APPROVED VAPOR BARRIER PAINT. | NEW CONSTRUCTION). g. ALL STRUCTURAL SOFTWOOD PLYWOOD, PARTICL BOARD AND OSB BOARD ARE STAMPLED WITH P |
| a. NO SEPARATION REQUIRED IF ENTIRELY OPEN ON 2 OR MORE SIDES AND NO ENCLOSED USES. (OPEN DECKS ABOVE ARE OKAY. NON-RATED WALLS AND OPENABLE WINDOWS BETWEEN THE DWELLING AND CAPDORT ARE OKAY) | board, and obb board are stamled with a 'EXTERIOR'. h. WATER HEATER STORAGE TANK LABELED AS M APPLIANCE ENERGY CONSERVATION ACT. ASHRA |
| b. MINIMUM 1/2" GWB ON GARAGE/CARPORT SIDE OF WALLS REQUIRED FOR ALL GARAGES/CARPORTS NOT COVERED BY 1A | i. INSULATE HOT AND COLD WATER PIPES TO R-3 |
| C. 1-HOUR FIRE RATED WALL REQUIRED IF LESS THAN 5 FEET FROM PROPERTY LINE (NO OPENINGS ALLOWED LESS THAN 3' FROM | AREAS. (INSULATION FOR HOT WATER PIPE, BOT OUTSIDE CONDITIONED SPACE, SHALL HAVE A M R-3 PER WSEC R403.5.3) |
| PROPERTY LINE, 25% MAXIMUM OPENINGS BETWEEN 3' AND 5' TO PROPERTY LINE). OVERHANGS MUST BE A MINIMUM 2' FROM PROPERTY LINE, EXCEPT STEEL GUTTER ALLOWED CLOSER AND | j. SHOWER REGULATOR TO LIMIT HOT WATER DISC GPM k. WOODSTOVES AND FIREPLACES HAVE TIGHT FI |
| 5/8" GWB SHEATHING REQUIRED ON UNDERSIDE WHEN 5' OR LESS FROM PROPERTY LINE. | OUTSIDE COMBUSTION AIR DUCTED TO FIREBOX DAMPER, MIN 6 SQ IN FREE VENT AREA. TIGHT DAMPERS REQ'D. |
| EGRESS WINDOWS: REQUIRED FOR 1 WINDOW/BEDROOM OR SLEEPING AREA (BELOW 4TH FLOOR) AND 1 WINDOW/BASEMENT. a. MIN. NET CLEAR AREA = 5.7 SQ. FT., (MIN. 3'0" × 4'6" IF DOUBLE | ALL GAS AND OIL COMBUSTION APPLIANCES HA VENT OR FORCED DRAFT VENTING. m. RECESSED LIGHTS ARE I.C. RATED, DOUBLE WAI |
| HUNG OR 4'0" × 3'6" WINDOW IF SLIDER). 5.0 SQ. FT. IF SILL HEIGHT IS WITHIN 44" OF GRADE (ABOVE OR BELOW) | WITHIN SEALED WPGWB BOX-IN. n. CONTRACTOR TO PROVIDE (1) 16"x24" MINIMUM CI |
| b. MIN. NET CLEAR OPENING WIDTH = 20"; MIN. NET CLEAR OPENING HEIGHT = 24" c. MAX. SILL HEIGHT = 44" | ACCESS INTO NEW CRAWL SPACE AREA THAT I FROM EITHER THE OUTSIDE OR FROM THE EXIS AREA. OTHERWISE CONTRACTOR IS TO PROVIDE |
| <u>REQUIRED GLAZING FOR HABITABLE ROOMS:</u> a. MIN. GLAZED EXTERIOR OPENING AREA = 8% OF FLOOR AREA. | THAT ACCESSES NEW CRAWL SPACE AREA. O. A CERTIFICATE IS REQUIRED TO BE POSTED W |
| b. GLAZED OPENINGS NOT REQUIRED WHERE PERMANENTLY INSTALLED ARTIFICIAL LIGHT IS PROVIDED. c. OK IF OPENINGS ARE BELOW DECK & ROOFED PORCHES w/MIN. CEILING HEIGHT OF 7 FT. (LONG SIDE 65% OPEN) | ELECTRICAL PANEL PER WSEC R401.3 AND INCL Following: predominate R-values, u-values Fenestration, results from duct system a envelope air leakage testing, and efficie |
| MECHANICAL/VENTILATION: REQUIRED FOR HABITABLE ROOMS OF ADDITIONS AND ALTERATIONS MORE THAN 500 SQ. FT. OR THAT INCLUDE A KITCHEN, BATHROOM AND OTHER AREAS WHERE COOKING ODOR OR EXCESS WATER VAPOR WILL BE PRODUCED. | HEATING/COOLING/WATER HEATING EQUIPMENT. p. A MIN OF 90 PERCENT OF PERMANENTLY INSTA INTERIOR AND EXTERIOR LIGHTING FIXTURES M HIGH-EFFICIENCY LAMPS PER WSEC R404.1 |
| a. MIN. 50 CFM FOR BATHROOM AND LAUNDRY; MIN. 100 CFM FOR KITCHEN. | INSULATION |
| MIN. AIR INTAKE OPENINGS = 4 SQ. IN. PER ROOM. WHOLE HOUSE FAN MUST OPERATE AS SPECIFIED IN IRC M1505.4 | INSULATION AND FENESTRATION REQUIREME |
| <u>SMOKE ALARMS:</u> REQUIRED INSIDE AND OUTSIDE OF SLEEPING AREAS AND ON ALL FLOORS. DIRECT WIRING IS REQUIRED FOR SMOKE | CLIMATE ZONE |
| DETECTORS, UNLESS REMOVAL OF INTERIOR WALL OR CEILING FINISHES IS NECESSARY TO INSTALL THE WIRING. | FENESTRATION U-FACTOR (k) SKYLIGHT U-FACTOR (k) |
| <u>CARBON MONOXIDE ALARMS:</u> REQUIRED OUTSIDE SLEEPING AREAS AND ON ALL FLOORS, UNLESS WORK ONLY INVOLVES EXTERIOR SURFACES OF THE BUILDING | CEILING R-VALUE (k) |
| STAIR REQUIREMENTS: (APPLIES TO ALL R-3 STAIRS AND R-2 PRIVATE | MASS WALL R-VALUE (d) |
| a. MIN. WIDTH = 36" b. MAX HEIGHT/RISE = 7-3/4" MIN TREAD RUN = 10" | BELOW-GRADE WALL R-VALUE (e,c) |
| c. MIN. HEADROOM = 6'8" d. HANDRAIL 34"-38" ABOVE TREAD NOSING (RETURN ENDS) | SLAB R-VALUE & DEPTH (g,h) |
| e. HANDRAIL GRASP DIMENSION: MIN. 1-1/4", MAX. 2" f. WINDING STAIRS: | FOR SI: 1 FOOT = 304.8 MM, CI = CONTINUOUS INSULATINTERMEDIATE FRAMING. |
| 1. MIN. TREAD RUN AT NARROWEST POINT = 6" 2. MIN. TREAD RUN 12" FROM NAORROWEST POINT = 10" g. SPIRAL STAIRS: | d. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC / WHEN INSULATION IS INSTALLED IN A CAVITY WH THE LABEL OR DESIGN THICKNESS OF THE INSUL |
| 1. MIN. CLEAR WALKING AREA WIDTH = 26" 2. MIN. TREAD RUN 12" FROM NARROWEST POINT = 7-1/2" / MAX. RISER HEIGHT = 9-1/2" 2. MIN. LIEADROOM _ CIC" | A101.4 SHALL NOT BE LESS THAN THE R-VALUE S TABLE. |
| 5. MIN. HEADROOM = 6.6" CEILING HEIGHT IN ADDITIONS AND ALTERATIONS: | c. "10/15/21 +TB" MEANS R-10 CONTINUOUS INSULATIO |
| a. MIN. 7'O": FOR NEW CONSTRUCTION OR ADDITIONS b. ROOMS WITH SLOPED CEILINGS REQUIRE MINIMUM CEILING HEIGHT IN 1/2 OF THE AREA. (PORTIONS OF THE ROOM WITH CEILING HEIGHT LESS THAN 5 FT. DO NOT COUNT IN TOTAL AREA). | EXTERIOR OF THE WALL, OR R-15 CONTINUOUS INS INTERIOR OF THE WALL, OR R-21 CAVITY INSULAT THERMAL BREAK BETWEEN THE SLAB AND THE B AT THE INTERIOR OF THE BASEMENT WALL. "10/1 BE PERMITTED TO BE MET WITH R-13 CAVITY INS |
| INSULATION: 1. FACED BATTS ARE LAPPED AND FACE STAPLED AT FRAMING | INTERIOR OF THE BASEMENT WALL PLUS R-5 CON INSULATION ON THE INTERIOR OR EXTERIOR OF T MEANS THERMAL BREAK BETWEEN FLOOR SLAB A |
| ALL EXTERIOR WALL CAVITIES ARE FILLED WITH UNCOMPRESSED INSULATION, INCLUDING ALL CAVITIES ISOLATED DURING FRAMING, | WALL. d. R-10 CONTINUOUS INSULATION IS REQUIRED UNDER GRADE FLOORS SEE R402.2.9.1 |
| WIRING, AND PLUMBING. 3. All recessed fixtures in exterior walls have rigid board insulation behind them | e. THERE ARE NO SHGC REQUIREMENTS IN THE MAR f. RESERVED. |
| 4. UNDERFLOOR INSULATION IS SUPPORTED BY LATH, TWINE, OR OTHER NON-COMPRESSING MEANS. | g. RESERVED. h. RESERVED. |
| 5. ATTIC ACCESS IS BAFFLED, WEATHER-STRIPPED AND INSULATED. | THE SECOND R-VALUE APPLIES WHEN MORE THAN INSULATION IS ON THE INTERIOR OF THE MASS V j. RESERVED. |
| | k. FOR SINGLE RAFTER- OR JOIST-VAULTED CEILING MAY BE REDUCED TO R-38. |

MUST BE ACCURATELY OUNDATION INSPECTION, A ONS WILL NOT BE ACCEPTED

ESS THAN 4" SPACING 2" MIN. HT. FOR R-2

XPOSED GROUND IN CRAWL 1IN. 6" ABOVE GRADE. . THICKNESSES. STING ON CONCRETE PAD

#4 REBAR TOP AND BOTTOM . LIMIT 4' MAX. BACKFILL. " x 10", 6 FT. ON CENTER OF PLATE AND AT LEAST

ACH PIECE (REQUIRED FOR , PARTICLE BOARD, WAFER ED WITH EXPOSURE '1' OR

LED AS MEETING 1987 NAT'L CT. ASHRAE STANDARD PAD IF LOCATED OVER

PES TO R-3 IN UNHEATED PIPE, BOTH WITHIN AND HAVE A MIN R-VALUE OF

VATER DISCHARGE TO 2.5

TIGHT FITING DOORS, FIREBOX WITH ACCESSIBLE EA. TIGHT FITTING FLUE

IANCES HAVE A DIRECT

OUBLE WALL CAN LIGHTS OR

IINIMUM CRAWL SPACE EA THAT IS ACCESSIBLE THE EXISTING CRAWLSPACE PROVIDE (1) 18"x24" MINIMUM

AIN LEVEL FLOOR FRAMING POSTED WITHIN 3' OF THE

AND INCLUDE THE U-VALUES OF SYSTEM AND BUILDING D EFFICIENCIES OF

TLY INSTALLED LAMPS IN XTURES MUST BE

UIREMENTS R402.1.1 5 AND MARINE-4 0.30 0.50 NR 49 21 INT 21/21 30 10/15/21 INT + TB 10, 2FT

US INSULATION, INT =

AND SHGC ARE MAXIMUMS. CAVITY WHICH IS LESS THAN THE INSULATION, THE FION FROM APPENDIX TABLE R-VALUE SPECIFIED IN THE

EXCLUDES SKYLIGHTS. THE FENESTRATION. INSULATION ON THE INUOUS INSULATION ON THE ' INSULATION PLUS A AND THE BASEMENT WALL

VALL. "10/15/21 +TB" SHALL CAVITY INSULATION ON THE JS R-5 CONTINUOUS RIOR OF THE WALL. "TB" OR SLAB AND BASEMENT

RED UNDER HEATED SLAB ON

THE MARINE ZONE.

10RE THAN HALF THE HE MASS WALL.

D CEILINGS, THE INSULATION

m. INT. (INTERMEDIATE FRAMING) DENOTES STANDARD FRAMING 16 INCHES ON CENTER WITH HEADERS INSULATED WITH A MINIMUM OF R-10 INSULATION.

- n. LOG AND SOLID TIMBER WALLS WITH A MINIMUM AVERAGE THICKNESS OF 3.5 INCHES ARE EXEMPT FROM THIS INSULATION REQUIREMENT.
- o. WHERE EXISTING FRAMING CAVITIES ARE EXPOSED DURING CONSTRUCTION, THE CAVITIES MUST BE FILLED TO FULL DEPTH WITH BATT INSULATION OR INSULATION HAVING AN EQUIVALENT NOMINAL R-VALUE OF R-15 AT 2x4 WALLS OR R-21 AT 2x6 WALLS PER WSEC 503.1.1

MECHANICAL/VENTILATION

| LUCAL EXHAUST REQUIREME | NIS MISUS,4.4 |
|--|--|
| AREAS TO BE EXHAUSTED | EXHAUST RATES |
| KITCHENS | 100 CFM INTERMITTENT OR 25 CFM CONTINUOUS |
| BATHROOMS/TOILET ROOMS, LAUNDRY ROOMS,INDOOR SWIMMING POOL ROOMS, SPA ROOMS. | MECHANICAL EXHAUST CAPACITY OF 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS |

| CONTINUOUS SYSTEM AI | WHOLE-H RFLOW R | IOUSE ME ATE REQL | CHANICAL JIREMENT | . VENTILA S M1505.4 | ATION 3(1) |
|-----------------------------|--------------------|----------------------|----------------------|------------------------|---------------|
| | | NUMB | ER OF BEDR | OOMS | |
| DWELLING UNIT | 0-1 | 2-3 | 4-5 | 6-7 | >7 |
| FLOOR AREA (SQUARE FEET) | | AI | RFLOW IN CI | =M | |
| <1500 | 30 | 45 | 60 | 75 | 90 |
| 1501-3000 | 45 | 60 | 75 | 90 | 105 |
| 3001-4500 | 60 | 75 | 90 | 105 | 120 |
| 4501-6000 | 75 | 90 | 105 | 120 | 135 |
| 6001-7500 | 90 | 105 | 120 | 135 | 150 |
| >7501 | 105 | 120 | 135 | 150 | 165 |

| INTERMITTEI | NT WHOU RATE | E-HOUS FACTOR | E MECH. RS M150 | ANICAL 5.4.3(2) | VENTILA | TION |
|---|-----------------|------------------|--------------------|--------------------|---------|------|
| RUN-TIME PRECENTAGE IN EACH 4-HOUR SEGMENT | 25% | 33% | 50% | 66% | 75% | 100% |
| FACTOR | 4 | 3 | 2 | 1.5 | 1.3 | 1.0 |

BATHROOMS, TOILET ROOMS, AND KITCHENS SHALL INCLUDE A LOCAL EXHAUST SYSTEM. SUCH LOCAL EXHAUST SYSTEMS SHALL HAVE THE CAPACITY TO EXHAUST THE MINIMUM AIRFLOW RATE IN ACCORDANCE WITH TABLE M1505.4.4(1). FANS REQUIRED BY THIS SECTION SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE OR AUTOMATIC OCCUPANCY SENSOR, HUMIDITY SENSOR OR POLLUTANT SENSOR CONTROLS. AN "ON/OFF" SWITCH SHALL MEET THIS REQUIREMENT FOR MANUAL CONTROLS. MANUAL FAN CONTROLS SHALL BE READILY ACCESSIBLE IN THE ROOM SERVED BY THE FAN.

- 1. EXHAUST FANS SHALL MEET THE FOLLOWING CRITERIA: • EXHAUST FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE AIRFLOW AND SOUND RATING PROCEDURES OF THE HOME VENTILATING INSTITUTE (HVI 915, HVI LOUDNESS TESTING AND RATING PROCEDURE; HVI 916, HVI AIRFLOW TEST PROCEDURE; AND HVI 920, HVI PRODUCT PERFORMANCE CERTIFICATION PROCEDURE). EXCEPTION: WHERE A RANGE HOOD OR DOWN DRAFT EXHAUST FAN 3 IS USED FOR LOCAL EXHAUST FOR A KITCHEN, THE DEVICE IS NOT REQUIRED TO BE RATED PER THESE STANDARDS.
- FAN AIRFLOW RATING AND DUCT SYSTEM SHALL BE DESIGNED AND INSTALLED TO DELIVER AT LEAST THE EXHAUST AIRFLOW REQUIRED BY TABLE M1505.4.4(1). THE AIRFLOWS REQUIRED REFER TO THE DELIVERED AIRFLOW OF THE SYSTEM AS INSTALLED AND TESTED USING A FLOW HOOD, FLOW GRID, OR OTHER AIRFLOW MEASUREMENT DEVICE. LOCAL EXHAUST SYSTEMS SHALL BE TESTED, BALANCED AND VERIFIED TO PROVIDE A FLOW RATE NOT LESS THAN THE MINIMUM REQUIRED BY THIS SECTION.
- DESIGN AND INSTALLATION OF THE SYSTEM OR EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- FAN AIRFLOW RATING AND DUCT SYSTEM SHALL BE DESIGNED AND INSTALLED TO DELIVER AT LEAST THE EXHAUST AIRFLOW REQUIRED BY TABLE M1505.4.4(1).
- 2. WHOLE-HOUSE VENTILATION USING EXHAUST FANS MUST COMPLY WITH: IRC M1505.4: EACH DWELLING UNIT SHALL BE EQUIPPED WITH A VENTILATION SYSTEM. THE WHOLE-HOUSE MECHANICAL VENTILATION 5. SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH SECTIONS M1505.4.1 THROUGH M1505.4.4.
- WHOLE-HOUSE VENTILATION FANS SHALL BE RATED FOR SOUND AT NO LESS THAN THE MINIMUM AIRFLOW RATE REQUIRED BY SECTION M1505.4.3.1. VENTILATION FANS SHALL BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 IN. W.C. (25 PA) STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN SECTIONS M1505.4.1.2 AND M1505.4.1.3.

3. DUCTS MUST BE LEAK TESTED IN ACCORDANCE WITH WSU RS-33 USING THE MAXIMUM DUCT LEAKAGE RATES SPECIFIED. DUCT TIGHTNESS MUST BE VERIFIED BY EITHER A POST-CONSRUCTION TEST OR ROUGH - IN TEST PER WSEC R403.3.3. TOTAL LEAKAGE MUST BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQ-FT OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1" W.G. (25 PA) ACROSS THE ENTIRE SYSTEM.

| PER IRC M1503.6, WHERE ONE OR MORE GAS, L UEL-BURNING APPLIANCE THAT IS NEITHER DIRE MECHANICAL DRAFT VENTING SYSTEM IS LOCATE NIT'S AIR BARRIER, EACH EXHAUST SYSTEM CAP XCESS OF 400 CUBIC FEET PER MINUTE (0.19 M MECHANICALLY OR PASSIVELY PROVIDED WITH MA PPROXIMATELY EQUAL TO THE EXHAUST AIR RA YSTEMS SHALL BE EQUIPPED WITH NOT FEWER COMPLYING WITH SECTION M1503.6.2. WHERE A CLOSET IS DESIGNED FOR THE INST CLOTHES DRYER, AN OPENING HAVING AN AREA (0. INCHES SHALL BE PROVIDED IN THE CLOSET IR SHALL BE PROVIDED BY OTHER APPROVED M Vertical Fenestration (Windows and doors) Component D1 - SOLID W1 - C - EGRESS W2 - XO W3 - SH W4 - SH | IQUID OR SOL CT-VENT NOP D WITHIN A ABLE OF EXH 3/S) SHALL B AKEUP AIR A TE. SUCH MA THAN ONE D ALLATION OF DF NOT LESS ENCLOSURE EANS PER SM Ref. WSEC WSEC WSEC WSEC WSEC | ID USES A DWELLING HAUSTING IN E T A RATE KEUP AIR AMPER A THAN 100 DR MAKEUP C 504.6. U-factor 0.30 0.30 0.30 0.30 0.30 | ACTUAL SIZE Width Height Sill Qt. Feet Inch Feet Inch Area UA 1 2 8 6 8 0 0 1 3 0 3 6 3 8 10.5 3.15 1 5 0 2 0 5 6 10.0 3.00 1 2 10 5 0 3 6 2 6 10.0 3.00 1 2 10 5 0 3 6 3 8 10.0 3.00 1 2 10 5 0 3 6 2 6 2 7.8 8.33 | REV DATE DESCRIPTION 0 01.29.21 PERMIT SUBMITTAL 1 06.07.21 CORRECTION CYCLE 1 1 06.07.21 CORRECTION CYCLE 1 |
|---|---|--|--|--|
| W5 - SH | WSEC | 0.30 | 1 2 10 5 0 3 6 14.2 4.25 | YEN DESIGN INC. |
| W6 - SH | WSEC | 0.30 | 2 2 10 5 0 3 6 28.3 8.50 | |
| W7 - SH - EGRESS | WSEC | 0.30 | 2 5 0 6 0 2 6 60.0 18.00 | 206.432.1111 |
| W8 - SH - EGRESS - SAFETY | WSEC | 0.30 | 1 4 0 4 8 2 6 18.7 5.60 | WWW.YENDES.COM |
| W9 - SH - EGRESS | WSEC | 0.30 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | APPROVAL STAMP |
| W10 - SH W11 - SH | | 0.30 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| W12 - SH | WSEC | 0.30 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| W12 SH | WSEC | 0.30 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| W14 - SH - OPAQUE - SAFETY | WSEC | 0.30 | 1 2 10 3 0 4 6 8.5 2.55 | |
| W15 - SH - OPAQUE | WSEC | 0.30 | 1 2 10 3 0 4 6 8.5 2.55 | |
| W16 - SH - OPAQUE | WSEC | 0.30 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| W17 - SH W/18 - SH | WSEC | 0.30 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| AFETY GLAZING FOR EXISTING OPENING REPLAC GLAZING IN DOORS: SAFETY GLAZING IS REQUI OPERABLE PANELS OF SWINGING, SLIDING, AND GLAZING IS NOT REQUIRED IN A DOOR IF THE NOT ALLOW THEPASSAGE OF A 3 INCH SPHERE THE DOOR IS DECORATIVE. . GLAZING ADJACENT TO DOORS: GLAZING ADJA REQUIRED IN THE FOLLOWING LOCATIONS IF T THE GLAZING IS LESS THAN 60 INCHES ABOV SURFACE: WITHIN 24 INCHES OF EITHER SIDE GLAZING IS IN THE SAME PLANE AS THE DOOR A WALL PERPENDICULAR TO THE DOOR WITHIN HINGE SIDE OF AN INSWING DOOR. SAFETY GL IF THERE IS AN INTERVENING WALL OR PERM. THE DOOR AND THE GLAZING. . GLAZING IN WINDOWS: SAFETY GLAZING IN WI THE INDIVIDUAL PANEL MEETS ALL OF THE F • EXPOSED AREA OF THE INDIVIDUAL PANEL SQUARE FEET. • THE BOTTOM EDGE OF THE GLAZING IS LE FROM THE FLOOR • THE TOP EDGE OF THE GLAZING IS MORE THE FLOOR. • THERE IS A WALKING SURFACE WITHIN 36 HORIZONTALLY, FROM THE GLAZING * WHERE A HORIZONTAL RAIL CAPAB OF FORCE WITHOUT MAKING CONTACT | CEMENT: RED IN FIXED BIFOLD DOOR GLAZED OPEN , OR THE GLA CENT TO DOO THE BOTTOM E THE WALK OF THE WALK OF THE DOO OR, OR IF GLA I 24 INCHES AXENT BARRIN NDOWS IS RE OLLOWING RE SS THAN 18 THAN 36 INC INCHES, MEA LE OF RESIS WITH THE GI | D AND RS. SAFETY NINGS DO AZING IN DRS IS EDGE OF ING R IF AZING IS IN ON THE T REQUIRED ER BETWEEN COUIRED IF QUIRED IF QUIREMENTS: THAN 9 INCHES HES ABOVE SURED | WINDOW & DOOR SCHEDULE NOTES: XO = SLIDER, SH = SINGLE HUNG, DH = DOUBLE HUNG, FIX = PICTURE, C = CASEMENT IF CONTRACTOR DECIDES TO REPLACE WINDOWS, THEY MUST MEET ENERGY PERFORMANCE STANDARDS, HEAT TREATMENT REQUIREMENTS AND EGRESS. ALL WINDOWS SHALL BE NFRC CERTIFIED. CONTRACTOR TO VERIFY EGRESS AND HEAT TREATMENT REQUIREMENTS WITH WINDOW & DOOR MANUFACTURER. EGRESS WINDOWS SIZED FOR "MILGARD STYLE LINE" SERIES WINDOWS. CONTRACTOR TO VERIFY EGRESS REQUIREMENTS IF A DIFFERENT MANUFACTURER / MODEL IS CHOSEN. WASHINGTON STATE ENERGY CREDIT CALCULATION: 162 SF OF NEW HEATED FLOOR AREA. 3 CREDITS REQ'D. ENERGY CREDITS CHOSEN: AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION: 1.5 PTS COMPLIANCE BASED ON SECTION R402.4.12: REDUCE THE TESTED AIR LEAKAGE TO 1.5 AIR CHANGES PER HOUR MAXIMUM AT 50 PASCALS & ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M1507.3 OF THE INTERNATIONAL RESIDENTIAL CODE OR SECTION 403.8 OF THE INTERNATIONAL MECHANICAL CODE SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENT WATER HEATING: 1.0 PTS ENERGY CTAR PATER ACE OR PEDDAME WATER HEATER WITH A | A RESIDENTIAL REMODEL 7511 MERCER ISLAND AL SABER 7511 SE 76TH ST MERCER ISLAND WA, 98040 |
| INSTALLED ON THE ACCESSIBLE SIDE INCHES ABOVE WALKING SURFACE. <u>GLAZING IN RAILINGS AND GUARDS</u> : ALL GLAZ RAILINGS, INCLUDING STRUCTURAL BALUSTER F NONSTRUCTURAL IN-FILL PANELS, IS REQUIRED <u>GLAZING AND WET SURFACE</u> : GLAZING IN WAL FENCES AROUND SHOWERS, BATHTUBS, POOLS, AND STEAM ROOMS WHERE THE BOTTOM EDGE LESS THAN 60 INCHES FROM THE STANDING (REQUIRED TO BE SAFETY GLAZING. SAFETY G WHERE THE GLAZINGIS MORE THAN 60 INCHES THE EDGE OF THE WATER. REFER TO IRC SECTION 312.2 FOR ADDITIONAL PROTECTION REQUIREMENTS. | OF THE GLA ING IN GUARI PANELS AND TO BE SAFE LS, ENCLOSU HOT TUBS, S OF THE GLA OR WALKING LAZING IS N G, HORIZONTA | 2ING 34-38 DS AND ETY GLAZING. RES, OR PAS, SAUNAS, AZING IS SURFACE IS DT REQUIRED LLY, FROM | ENERGY STAR RATED GAS OR PROPANE WATER HEATER WITH A MINIMUM UEF OF 0.91. 7.1: APPLIANCE PACKAGE: 0.5 PTS. ALL OF THE FOLLOWING APPLIANCES SHALL BE NEW AND INSTALLED IN THE DWELLING UNIT AND SHALL MEET THE FOLLOWING STANDARDS: DISHWASHER -ENERGY STAR RATED REFRIGERATOR (IF PROVIDED) -ENERGY STAR RATED WASHING MACHINE -ENERGY STAR RATED DRYER -ENERGY STAR RATED, VENTLESS DRYER WITH A MINIMUM CEF RATING OF 5.2. | GENERAL NOTES & WINDOW & DOOR SCHEDULE |
| | | | | JOB NO. 20-207 HALF SCALE 11x17 FULL SCALE 22x34 SHEET A1.1 |

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| | Н. І. Ј. К. | F. G. | D. E. | B. | C A. | | | - | | | L | |
|----------------------|---|---|--|--|--|--|--|--|-----------------|---|-----|-----|
| | CONTE CONTE REQUI BE RE FACIL DOORS OR ON CONTE 3' FRO THE E EACH WINDO INCHE OUTDO CONTE | WIRIN VERIF DOOR ALL D | <u>CARBO</u> LEVEL SLEEF <u>SMOKE</u> THE C | CONTR EXIST ANY V BE VE INSPE EXIST AFTER | SENE PLANS OFFIC | # | EF | (CD) | SD | //// = = = = = | EGE | |
| | ACTOR TO VFY ALL DIMENSIONS ON SITE PRIOR TO TRUCTION. RACTOR TO DETERMINE & VERIFY ALL WASTE DIVERSION REMENTS PER THE LOCAL JURISDICTION. CONTRACTOR MAY QUIRED TO REQUEST LEED REPORTS FROM RECEIVING ITIES. WITHOUT PLACEMENT DIMENSIONS WILL BE 3" OFF WALL CENTER, AS APPROPRIATE. RACTOR TO VERIFY EXHAUST POINTS ARE NOT LESS THAN DM PROPERTY LINES, 3' FROM OPERABLE OPENINGS INTO BUILDING, AND 10' FROM MECHANICAL AIR INTAKES. HABITABLE SPACE SHALL BE PROVIDED WITH OPERABLE DWS WITH AN OPENABLE AREA NOT LESS THAN 4 SQUARE S OF NET FREE AREA OF OPENING FOR EACH 10 CFM OF DOR AIR. WINDOW IS TO HAVE SCREEN AND SHALL BE ROLLABLE AND SECURABLE. | G REQUIRED. Y WINDOW & DOOR ROUGH OPENING SIZES WITH WINDOW & MANUFACTURER. MIMENSIONS TO STUD WALL . | ON MONOXIDE DETECTORS SHALL BE INSTALLED ON ALL S OF THE DWELLING AND PLACED IN PROXIMITY TO PING AREAS. E DETECTORS SHALL BE INSTALLED ON ALL LEVELS OF DWELLING AND WITHIN FACH SLEEPING AREA DIRECT | RACTOR TO VERIFY ALL STRUCTURAL LOAD PATHS AND ING SHEAR / BRACED WALL LOCATIONS BEFORE REMOVING VALLS. STRUCTURAL DEVIATIONS FROM THE PLAN SHOULD RIFIED BY A STRUCTURAL ENGINEER OR BUILDING CTOR. YEN DESIGN IS TO BE CONTACTED IF ACTUAL ING FRAMING CONDITIONS VARY FROM PLAN ASSUMPTIONS R CEILING WALL COVERINGS ARE REMOVED. | ERAL NOTES MUST BE APPROVED BY THE GOVERNING BUILDING TAL OR PROFESSIONAL ENGINEER PRIOR TO WORK | SEE DOOR AND WINDOW SCHEDULE ON SHEET <u>A1.1</u> FOR detailed info. See $2/A5.1$ & $3/A5.1$ for framing info. | EXHAUST FAN (INTERMITTENT) 50 CFM U.N.O. | THIS SHEET FOR BALANCE OF INFORMATION CARBON MONOXIDE DETECTOR WITH BATTERY BACKUP. | SMOKE DETECTOR | NEW STUD WALL. SEE <u>1/A5.1</u> FOR FRAMING INFO. EXISTING WALL TO REMAIN DEMOLISHED WALLS | END | |
| < | A RESIDENTIAL REMODEL | | E | | YEN 20 ww | | | EV DAT 0 01.29. | E DES 21 PER | CRIPTION | | · · |
| BASEMENT FLOOR PLANS | 7511 MERCER ISLAND | | NGINEER | | I DESIG | | | 1 06.07. | 21 COR | RECTION CYCLE | ~ | |
| < ∼ ≥ | AL SABER 7511 SE 76TH ST AERCER ISLAND WA, 98040 | | STAMP | | GN INC. 2.1111 DES.COM | | | | | | | |



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| L | EGE | ND | | LE 1 | | |
| | /// | NEW STUD WALL. SEE <u>1/A5.1</u> FOR FRAMING INFO. EXISTING WALL TO REMAIN DEMOLISHED WALLS | RIPTION | T SUBMITTA ECTION CYC | | |
| | (SD) | SMOKE DETECTOR | DESCF | CORR | | |
| - | (#) | INDICATES REFERENCE TO KEYNOTES SEE KEYNOTES ON This sheet for balance of information | DATE | .29.21 | | |
| | CD | CARBON MONOXIDE DETECTOR WITH BATTERY BACKUP. | REV I | - 0 0 | | |
| | (EF) | EXHAUST FAN (INTERMITTENT) 50 CFM U.N.O. | | | | |
| | # | SEE DOOR AND WINDOW SCHEDULE ON SHEET <u>A1.1</u> FOR DETAILED INFO. SEE <u>2/A5.1</u> & <u>3/A5.1</u> FOR FRAMING INFO. | | h | | |
| | | | Y | | SIGN II | NC. |
| G | GENE | ERAL NOTES | 2 | 06.4 | 32.11 | 11 |
| A. | PLANS OFFIC COMME | MUST BE APPROVED BY THE GOVERNING BUILDING IAL OR PROFESSIONAL ENGINEER PRIOR TO WORK ENCING. | W | WW.YE | NDES.C | OM > |
| B. | CONTR EXIST ANY W BE VE INSPE EXIST AFTER | ACTOR TO VERIFY ALL STRUCTURAL LOAD PATHS AND ING SHEAR / BRACED WALL LOCATIONS BEFORE REMOVING /ALLS. STRUCTURAL DEVIATIONS FROM THE PLAN SHOULD RIFIED BY A STRUCTURAL ENGINEER OR BUILDING CTOR. YEN DESIGN IS TO BE CONTACTED IF ACTUAL ING FRAMING CONDITIONS VARY FROM PLAN ASSUMPTIONS & CEILING WALL COVERINGS ARE REMOVED. | | | | |
| C. | SEE S | HEET A1.1 FOR COMMON CODE REQUIREMENTS. | | | | |
| D. | <u>CARBC</u> LEVEL SLEEP | <u>ON MONOXIDE DETECTORS </u> SHALL BE INSTALLED ON ALL S OF THE DWELLING AND PLACED IN PROXIMITY TO ING AREAS. | - | ENGINE | ER STAMP | > |
| E. | <u>Smoke</u> The d Wiring | <u>DETECTORS</u> SHALL BE INSTALLED ON ALL LEVELS OF WELLING AND WITHIN EACH SLEEPING AREA. DIRECT G REQUIRED. | | | | |
| F. | VERIF DOOR | Y WINDOW & DOOR ROUGH OPENING SIZES WITH WINDOW & MANUFACTURER. | | | | |
| G. H. | ALL D Contr Const | IMENSIONS TO STUD WALL . ACTOR TO VFY ALL DIMENSIONS ON SITE PRIOR TO RUCTION. | | | | |
| I. | CONTR REQUII BE RE EACU | ACTOR TO DETERMINE & VERIFY ALL WASTE DIVERSION REMENTS PER THE LOCAL JURISDICTION. CONTRACTOR MAY QUIRED TO REQUEST LEED REPORTS FROM RECEIVING | | LAND | | |
| J, | DOORS OR ON | WITHOUT PLACEMENT DIMENSIONS WILL BE 3" OFF WALL CENTER, AS APPROPRIATE. | | R IS | | 40 |
| K, | CONTR 3' FRC The B | ACTOR TO VERIFY EXHAUST POINTS ARE NOT LESS THAN OM PROPERTY LINES, 3' FROM OPERABLE OPENINGS INTO UILDING, AND 10' FROM MECHANICAL AIR INTAKES. | | RCE | | WA, 980 |
| L. | EACH WINDO INCHE OUTDC CONTR | HABITABLE SPACE SHALL BE PROVIDED WITH OPERABLE WS WITH AN OPENABLE AREA NOT LESS THAN 4 SQUARE S OF NET FREE AREA OF OPENING FOR EACH 10 CFM OF OR AIR. WINDOW IS TO HAVE SCREEN AND SHALL BE OLLABLE AND SECURABLE. | | 11 ME | ABER I SE 76TH ST | CER ISLAND |
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| | | | | / \4 | | |



PLAN KEYNOTES

- 1. 90 CFM CONTINUOUS WHOLE HOUSE FAN AT 0.25" WATER GAUGE WITH A SONE RATING OF 1.0 OR LESS MEASURED AT 0.1 INCHES WATER GAUGE. IF FAN IS TO BE INTERMITTENT, APPLY VENTILATION RATE FACTOR PER IRC M1507.3.3(2) ON PAGE <u>A1.1.</u>
- 2. TPO ROOFING ON VAPOR BARRIER ON SHEATHING PER STRUCTURAL DRAWINGS. PROVIDE WALKABLE SURFACE PER MANUFACTURE ABOVE THE TPO MEMBRANE.
- 3. MIN 22"x30" ATTIC ACCESS.
- 4. DOOR SHALL BE LOUVERED OR BE UNDERCUT TO A MINIMUM OF 1/2" ABOVE THE SURFACE OF THE FINISH FLOOR COVERING.
- 5. CRYSTALITE INFINITY GLASS GUARDRAIL SYSTEM. 7/16" FULLY TEMPERED GLASS RAILING AT 36" IN HEIGHT. SYSTEM ADHERES TO THE APPROPRIATE ASTM STANDARD SPECIFICATIONS (C1048, C1172, C1036) AND THE REQUIREMENTS IN ASCE 7 SECTION 4.5.1. CONTRACTOR TO INSTALL RAILING SYSTEM EXACTLY TO MANUFACTURERS SPECIFICATIONS. IF CONTRACTOR DECIDES TO INSTALL A DIFFERENT RAILING SYSTEM, THEY MUST VERIFY THE NEW SYSTEM IS IN COMPLIANCE WITH ASCE 7 SECTION 4.5.1.
- WINDOW OR DOOR TO BE INFILLED PER SHEET A1.1 -INSULATION AND FENESTRATION REQUIREMENTS. SEE <u>4/A5.1</u> FOR BALANCE OF INFO.
- 7. NEW FACTORY BUILT GAS FIRE PLACE INSERT W/ DIRECT VENT INTAKE & EXHAUST PIPES INSTALLED CONTINUOUS TO THE OUTSIDE. SHALL BE LISTED, LABLED & INSTALLED WITH THE CONDITIONS OF THE LISTING & BE IN ACCORDANCE WITH UL 127.



EXISTING UPPER FLOOR PLAN

22x34: SCALE 1/8" = 1'-0" 11x17: SCALE 1/16" = 1'-0"

| | | | ۹L | CLE 1 | | | |
|--|--|----------|-----------------|-------------|----------------|---------------|----|
| | NEW STUD WALL, SEE <u>1745.1</u> FOR FRAMING INFO. EXISTING WALL TO REMAIN DEMOLISHED WALLS | RIPTION | IT SUBMITT/ | ECTION CY(| | | |
| (SD) | SMOKE DETECTOR | DESCI | PERM | CORR | | | |
| | INDICATES REFERENCE TO KEYNOTES SEE KEYNOTES ON THIS SHEET FOR BALANCE OF INFORMATION | / DATE | 01.29.21 | 06.07.21 | | | |
| | CARBON MONOXIDE DETECTOR WITH BATTERY BACKUP. | RE | 0 | ~ | | | |
| (EF) | EXHAUST FAN (INTERMITTENT) 50 CFM U.N.O. | | | | | | |
| # | SEE DOOR AND WINDOW SCHEDULE ON SHEET <u>A1.1</u> FOR DETAILED INFO. SEE $2/A5.1$ & $3/A5.1$ FOR FRAMING INFO. | Y | EN | DES | SIGN | IN | c. |
| GENE | ERAL NOTES | 2 | 206 | 5.43 | 32.1 | 11 | 1 |
| A. PLANS OFFIC COMMI | MUST BE APPROVED BY THE GOVERNING BUILDING TAL OR PROFESSIONAL ENGINEER PRIOR TO WORK ENCING. | V | AF | W.YE | NDES AL STA | S.CO | M |
| B. CONTR EXIST ANY V BE VE INSPE EXIST AFTER | RACTOR TO VERIFY ALL STRUCTURAL LOAD PATHS AND ING SHEAR / BRACED WALL LOCATIONS BEFORE REMOVING VALLS. STRUCTURAL DEVIATIONS FROM THE PLAN SHOULD RIFIED BY A STRUCTURAL ENGINEER OR BUILDING CTOR. YEN DESIGN IS TO BE CONTACTED IF ACTUAL ING FRAMING CONDITIONS VARY FROM PLAN ASSUMPTIONS R CEILING WALL COVERINGS ARE REMOVED. | | | | | | |
| C. SEE S | HEET A1.1 FOR COMMON CODE REQUIREMENTS. | | | | | | |
| D. <u>Carbo</u> Level Sleep | ON MONOXIDE DETECTORS SHALL BE INSTALLED ON ALL S OF THE DWELLING AND PLACED IN PROXIMITY TO VING AREAS. | | EN | IGINE | ER STA | MP | |
| E. <u>Smoke</u> The D Wiring | <u>e detectors</u> shall be installed on all levels of Welling and within each sleeping area. Direct g required. | | | | | | |
| F. VERIF DOOR | Y WINDOW & DOOR ROUGH OPENING SIZES WITH WINDOW & MANUFACTURER. | | | | | | |
| G. ALL D | MENSIONS TO STUD WALL. | | | | | | |
| H. CONTR Const | RACTOR TO VFY ALL DIMENSIONS ON SITE PRIOR TO TRUCTION. | _ | | | | | |
| I. CONTR REQUI BE RE | ACTOR TO DETERMINE & VERIFY ALL WASTE DIVERSION REMENTS PER THE LOCAL JURISDICTION. CONTRACTOR MAY QUIRED TO REQUEST LEED REPORTS FROM RECEIVING | | | LAND | | | |
| J. DOORS OR ON | 6 WITHOUT PLACEMENT DIMENSIONS WILL BE 3" OFF WALL I CENTER, AS APPROPRIATE. | | _ | R IS | | 40 | |
| K. CONTR 3' FRC The B | RACTOR TO VERIFY EXHAUST POINTS ARE NOT LESS THAN OM PROPERTY LINES, 3' FROM OPERABLE OPENINGS INTO BUILDING, AND 10' FROM MECHANICAL AIR INTAKES. | | REMODE | RCE | | WA. 980 | • |
| L. EACH WINDC INCHE OUTDC CONTF | HABITABLE SPACE SHALL BE PROVIDED WITH OPERABLE OWS WITH AN OPENABLE AREA NOT LESS THAN 4 SQUARE S OF NET FREE AREA OF OPENING FOR EACH 10 CFM OF OOR AIR. WINDOW IS TO HAVE SCREEN AND SHALL BE ROLLABLE AND SECURABLE. | | A RESIDENTIAL F | 7511 ME | AL SABER | MERCER ISLAND | |
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| STRUCTURE BELOW | V MITTAL |
| ROOF LINE | IPTION CCTION |
| NEW GUTTER | ESCR |
| <pre>INDICATES REFERENCE TO KEYNOTES SEE</pre> | DATE D 01.29.21 P 06.07.21 C |
| EXISTING ROOF FRAMING | AEV 1 |
| NEW ROOF FRAMING | |
| OVER FRAMING PER <u>6/A5.1</u> | |
| GENERAL NOTES | YEN DESIGN INC. |
| A. PLANS MUST BE APPROVED BY THE GOVERNING BUILDING OFFICIAL OR PROFESSIONAL ENGINEER PRIOR TO WORK COMMENCING. | 206.432.1111 www.yendes.com |
| B. CONTRACTOR TO VERIFY ALL STRUCTURAL LOAD PATHS AND EXISTING SHEAR / BRACED WALL LOCATIONS BEFORE REMOVING ANY WALLS. STRUCTURAL DEVIATIONS FROM THE PLAN SHOULD BE VERIFIED BY A STRUCTURAL ENGINEER OR BUILDING INSPECTOR. YEN DESIGN IS TO BE CONTACTED IF ACTUAL EXISTING FRAMING CONDITIONS VARY FROM PLAN ASSUMPTIONS AFTER CEILING WALL COVERINGS ARE REMOVED. | APPROVAL STAMP |
| C. SEE SHEET A1.1 FOR COMMON CODE REQUIREMENTS. | |
| D. <u>CARBON MONOXIDE DETECTORS SHALL</u> BE INSTALLED ON ALL LEVELS OF THE DWELLING AND PLACED IN PROXIMITY TO SLEEPING AREAS. | |
| E. <u>SMOKE DETECTORS</u> SHALL BE INSTALLED ON ALL LEVELS OF THE DWELLING AND WITHIN EACH SLEEPING AREA. DIRECT WIRING REQUIRED. | ENGINEER STAMP |
| F. VERIFY WINDOW & DOOR ROUGH OPENING SIZES WITH WINDOW & DOOR MANUFACTURER. | |
| G. ALL DIMENSIONS TO STUD WALL . | |
| H. CONTRACTOR TO VFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION. | |
| I. CONTRACTOR TO DETERMINE & VERIFY ALL WASTE DIVERSION REQUIREMENTS PER THE LOCAL JURISDICTION. CONTRACTOR MAY BE REQUIRED TO REQUEST LEED REPORTS FROM RECEIVING FACILITIES. | DN |
| J. DOORS WITHOUT PLACEMENT DIMENSIONS WILL BE 3" OFF WALL OR ON CENTER, AS APPROPRIATE. | SLA |
| K. CONTRACTOR TO VERIFY EXHAUST POINTS OF TERMINATION ARE NOT LESS THAN 3' FROM PROPERTY LINES, 3' FROM OPERABLE OPENINGS INTO THE BUILDING, AND 10' FROM MECHANICAL AIR INTAKES. | REMODEL ERCER I T D WA, 98040 |
| ROOF VENT CALC. | DENTIAL 1 ME ER E 76TH S ⁻ R ISLANI |
| ATTIC VENTILATION. | A RESIL 751 AL SAB 7511 SE MERCE |
| ATTIC VENTILATION METHOD TO BE DETERMINED BY CONTRACTOR: VENTILATION OF ALL ATTIC SPACES OVER HEATED AREAS TO BE | 7 |
| DISTRIBUTED AS SUCH: 1/2 GABLE, ROOF JACK, OR RIDGE VENTING 1/2 BIRD BLOCK OR SOFFIT VENTING. | : PLAN |
| | OOF |
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1. DOWN SPOUT LOCATION. STORM WATER TO MITIGATED VIA EXISTING STORM WATER CONTROL SYSTEM ON THE PROPERTY.

JOB NO.

SHEET

HALF SCALE

FULL SCALE

A2.4

20-207

11x17

22x34









TYPICAL BASEMENT WINDOW SECTION SCALE: 1"=1'-0"

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A4.1



INSULATION KEYNOTES

- 1. R-10 BATT INSULATION AT RIM JOIST
- 2. R-21 BATT INSULATION AT ALL ABOVE GRADE EXT. WALLS.
- 3. R-49 BATT INSULATION AT ROOF. PROVIDE 1" AIRSPACE ABOVE INSULATION AT THE EAVES AND IN ENCLOSED RAFTER SPACE.
- 4. 1" CLOSED CELL FOAM INSULATION (R-6.5 TOTAL) ON THE UNDERSIDE OF SHEATHING. THE APPLIED SPRAY FOAM MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BY A CERTIFIED INSTALLER. A COPY OF THE ICC-ES REPORT FOR THE INSULATION PRODUCT MUST BE PROVIDED ON THE SITE FOR THE FIELD INSPECTOR. FILL REMAINING VOID WITH BATT INSULATION w/ A MIN R-VALUE OF 31.5.

#

5. 6" CLOSED CELL FOAM INSULATION (R-38 TOTAL) ON THE UNDERSIDE OF SHEATHING. THE APPLIED SPRAY FOAM MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BY A CERTIFIED INSTALLER. A COPY OF THE ICC-ES REPORT FOR THE INSULATION PRODUCT MUST BE PROVIDED ON THE SITE FOR THE

| REVDATEDESCRIPTION001.29.21PERMIT SUBMITTAL106.07.21CORRECTION CYCLE 1106.07.21CORRECTION CYCLE 1 | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| VEN DESIGN INC. 206.432.1111 WWW.YENDES.COM | | | | | | | | |
| ENGINEER STAMP | | | | | | | | |
| - DN | | | | | | | | |
| A RESIDENTIAL REMODEL 7511 MERCER ISLA AL SABER 7511 SE 76TH ST MERCER ISLAND WA, 98040 | | | | | | | | |
| BUILDING SECTIONS | | | | | | | | |
| JOB NO. 20-207 HALF SCALE 11x17 FULL SCALE 22x34 SHEET | | | | | | | | |

INSULATION KEYNOTES

- 1. R-10 BATT INSULATION AT RIM JOIST
- 2. R-21 BATT INSULATION AT ALL ABOVE GRADE EXT. WALLS.
- 3. R-49 BATT INSULATION AT ROOF. PROVIDE 1" AIRSPACE ABOVE INSULATION AT THE EAVES AND IN ENCLOSED RAFTER SPACE.
- 4. 1" CLOSED CELL FOAM INSULATION (R-6.5 TOTAL) ON THE UNDERSIDE OF SHEATHING. THE APPLIED SPRAY FOAM MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BY A CERTIFIED INSTALLER. A COPY OF THE ICC-ES REPORT FOR THE INSULATION PRODUCT MUST BE PROVIDED ON THE SITE FOR THE FIELD INSPECTOR. FILL REMAINING VOID WITH BATT INSULATION w/ A MIN R-VALUE OF 31.5.

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5. 6" CLOSED CELL FOAM INSULATION (R-38 TOTAL) ON THE UNDERSIDE OF SHEATHING. THE APPLIED SPRAY FOAM MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BY A CERTIFIED INSTALLER. A COPY OF THE ICC-ES REPORT FOR THE INSULATION PRODUCT MUST BE PROVIDED ON THE SITE FOR THE FIELD INSPECTOR.

DURING CONSTRUCTION, THEY ARE TO BE INSULATED PER THE INSULATION TABLE ON SHEET A1.1.

| DATE DESCRIPTION | 01.29.21 PERMIT SUBMITTAL | 06.07.21 CORRECTION CYCLE 1 | | | | | | | |
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| REV | 0 | ~ | | | | | | | |
| Y | YEN DESIGN INC. | | | | | | | | |
| 2 v | 206.432.1111 WWW.YENDES.COM | | | | | | | | |
| | APPROVAL STAMP | | | | | | | | |
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| | A RESIDENTIAL REMODEL | 7411 MERCER ICI A | | AL SABER | 7511 SE 76TH ST | MERCER ISLAND WA, 98040 | | | |
| | | | SNOITO | | | | - | | |
| | | | | | | | | | |
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HOLD-DOWN SCHEDULE

| SYMBOL | SPECIFICATION |
|---|--|
| HD-I | SIMPSON HTT4 HOLD-DOWN |
| HD-5 | SIMPSON CSI6 STRAP TIE (14" END LENGTH) |
| HD-7 | SIMPSON MSTC66 STRAP TIE (24" END LENGTH) |
| * UTILIZE SIMPSON "SET-XP" EPOXY SYSTEM TO FAST %" DIA. THREADED ROD INTO CONCRETE FOUNDATION PROVIDE 10" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN 1 ³ / ₄ " OF EDGE OF FOUNDATION | |

| PARAMETERS | | |
|--|--|--|
| GRAVITY DESIGN LOADS: DEAD LOAD (PSF): ROOF TRUGS TOR CHORD . | 10 | THIS ADD RESIST LA |
| ROOF TRUSS BOTTOM CHORD : FLOOR (I-JOIST) : TILE FLOORS : | 7 10 10 | IUU (ASCE 7- RISI |
| LIVE LOAD (PSF): | 20 | IO MPH |
| RESIDENTIAL LIVING AREAS : RESIDENTIAL SLEEPING AREAS : RESIDENTIAL WOOD DECKS : GARAGE : | 40 30 60 50 | ENGINEER 2018 IE AS PERMIT |
| SNOW LOAD: GROUND SNOW LOAD (Pg) (PSF) : FLAT ROOF SNOW LOAD (Pf) (PSF) : SNOW EXPOSURE FACTOR (Cg) : SNOW LOAD IMPORTANCE FACTOR (I) : THERMAL FACTOR (Cf) : | 25 25 0.9 1.0 1.2 | ACCORDING AND DETA ESIST THE AND DOES |
| LATERAL DESIGN LOADS: | | FRLJUR |
| WIND LOAD: (IBC 1609) SPEED (Vult) (MPH) : WIND RISK CATEGORY : | 100 11 | <u>STANDA</u> |
| IMPORTANCE FACTOR (IN) : EXPOSURE CATEGORY : INTERNAL PRESSURE COEFF. (GCP) : TOPOGRAPHIC FACTOR (K-1) : | 1.0 B/C ±0.18 | • 7/6" OSE |
| SEISMIC LOAD: (IBC 1613) SEISMIC RISK CATEGORY : | | SUPPORTED ALL SHEATH |
| SEISMIC IMPORTANCE FACTOR (I.) : MAPPED SPECTRAL RESPONSE : 55: 1.469 51: 0.561 | 1.0 | PROVIDED <u>SHALL BE (</u> <u>PLANS.</u> |
| SITE CLASS : D (DE SPECTRAL RESPONSE COEFF. : Sps: 1.175 Spi: 0.650 | FAULT) | |
| SEISMIC DESIGN CATEGORT: BASIC SEISMIC-FORCE-RESISTING SYS : LIGHT FRAMED WALLS WWOOD STRUCTURAL PANELS | D | • 7/6" OSE |
| ULTIMATE BASE SHEAR: TRANS: 9 k LONG: 9 k | | ONLY AT LO SHOWN WITH |
| TRANS: 0.181 LONG: 0.181 RESPONSE MODIFICATION FACTOR (R) : | | 3" O.C. AT I SHEET PANE MEMBERS C |
| ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE | | NOTES: |
| | | |
| | | I. LATERA |
| MEANS & METHODS NOTES | | I. LATERA 2. ALL SHI FASTEN (12)3½"x JOINT (1 |
| THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, I AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT | 5 AND DETAIL, IS THE 5 THE | LATERA ALL SHE FASTEN (12)3½"× JOINT (1 ALL EX ALL INT |
| THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, I AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMIN ERECTION PROCEDURES AND SEQUENCE TO INSURE THE S OF THE BUILDING AND ITS COMPONENTS DURING CONSTITUTE THE BUILDING AND ITS COMPONENTS DURING CONSTITUTE | 5 AND DETAIL, IS THE E THE AFETY ISTION. | LATERA ALL SHE FASTEN (12)3½"x JOINT (1 ALL EX ALL INT SHEATH WHERE 0 |
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LOADING AND DESIGN

LATERAL BRACING NOTES

DITION HAS BEEN ENGINEERED TO ATERAL FORCES RESULTING FROM:) MPH WIND SPEED, EXP. B/C '-16 WIND MAP, PER IRC R301.2.1.1) 5K CAT. 2 & SEISMIC CAT. D.

<u>I WIND IN 2018 IRC MAP</u> RED DESIGN WAS COMPLETED PER BC (SECTION 1609) & ASCE 7-16, TTED BY R301.1.3 OF THE 2018 IRC. NGLY, THIS MODEL, AS DOCUMENTED ALLED HEREWITHIN, IS ADEQUATE TO E CODE REQUIRED LATERAL FORCES, ES NOT NEED TO CONFORM TO THE RIPTIVE PROVISIONS OF R602.10.

ARD EXTERIOR WALL SHEATHING SPECIFICATIONS

 $B OR \frac{15}{32}$ " PLYWOOD:

#EATHING W/ 2¹/₂"x0.131" NAILS © 6"o.c. AT ALL D PANEL EDGES AND 12" O.C. IN THE PANEL FIELD. THING SHEET PANEL EDGES SHALL OCCUR OVER WALL MEMBERS OR 2x HORIZONTAL BLOCKING SHALL BE D TO SUPPORT PANEL EDGE. <u>ALL EXTERIOR WALLS</u> CONSTRUCTED PER THIS SPECIFICATION U.N.O. ON

<u>3" O.C. EDGE NAILING</u> (WHERE NOTED ON PLANG)

 $B OR \frac{15}{32}$ " PLYWOOD:

LOCATIONS INDICATED ON PLANS - SHEATHE WALL TH $\frac{7}{6}$ " OSB. FASTEN SHEATHING w/ $2\frac{1}{2}$ "x0.131" NAILS @ T EDGES AND 12" O.C. AT CENTER. ALL SHEATHING NEL EDGES SHALL OCCUR OVER WALL FRAMING OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED RT PANEL EDGE AND 3" O.C. FASTENING.

AL ANALYSIS ASSUMES STUD SPACING @ 16" o.c. IEAR WALLS SHALL HAVE DOUBLE TOP PLATES NED TOGETHER W/ 3"x0.131" NAILS @ 8" O.C. USE x0.135" NAILS AT EACH LAP SPLICE, (6) EACH SIDE OF (TYP. U.N.O)

XTERIOR WALLS ARE CONTINUOUSLY SHEATHED. TERIOR SHEAR WALLS AND EXTERIOR WALLS ARE

THED ABOVE AND BELOW OPENINGS. E OSB/PLYWOOD SHEATHING IS APPLIED TO BOTH IS OF A SHEAR WALL, PANEL JOINT SHALL BE ET TO FALL ON DIFFERENT FRAMING MEMBERS

LEGEND

INTERIOR BEARING WALL

- BEARING WALL ABOVE (B.W.A.), OR SHEARWALL ABOVE (S.W.A.)
- BEAM / HEADER
- INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL w/ 3" o.c. EDGE NAILING INDICATES AREA OF ROOF OVERFRAMING
- TAL HANGER
- NCATES POST ABOVE. PROVIDE SOLID OCKING UNDER POST OR JAMB ABOVE.

PICATES HOLDOWN.

LITION/RENOVATION NOTES

P FOUNDATION PLANS HAVE BEEN DESIGNED TO BE Y SOUND UPON COMPLETION OF THE WORK. THE MEANS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE IRACTOR (UNLESS SPECIFICALLY NOTED ON PLANS). LITION AND CONSTRUCTION, IT IS THE IRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING/BRACING OF EXISTING ELEMENTS INTENDED

THE STRUCTURAL PLANS HAVE BEEN PREPARED WITH EXISTING FRAMING/FOUNDATION ASSUMPTIONS AS NOTED ON THE PLANS. IT IS THE BUILDER/CONTRACTOR'S RESPONSIBILITY TO CONTACT M+K STRUCTURAL ENGINEERING IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS DEPICTED ON THE CONSTRUCTION DOCUMENTS.

GENERAL STRUCTURAL NOTES

DESIGN PARAMETERS

- DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE & 2018 INTERNATIONAL EXISTING BUILDING CODE
 WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN
- SPECIFICATION FOR WOOD CONSTRUCTION" LATEST EDITION.

<u>GENERAL FRAMING</u>

- EXTERIOR BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. (W/ DOUBLE TOP PLATE) HEM FIR (HF) "STUD" GRADE LUMBER, OR BETTER, U.N.O.
- INTERIOR BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS)

 IG" O.C. (w/ DOUBLE TOP PLATE) HEM FIR (HF) "STUD"
 GRADE LUMBER, OR BETTER, U.N.O.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX.)
- ALL WALLS TALLER THEN TYP. PLATE HEIGHT SHALL BE CONSIDERED BALLOON FRAMED & SHALL BE CONSTRUCTED FROM FLOOR TO UNDERSIDE OF FRAMING AT NEXT LEVEL. B.F. WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) HEM FIR (HF) #2 GRADE LUMBER, OR BETTER.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
 THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O..
- ALL 2x6 AND LARGER SOLID SAWN BEAMS/HEADERS SHALL BE HEM FIR #2 (HF #2) OR BETTER. ALL 4x6 AND LARGER SOLID SAWN LUMBER SHALL BE DOUG FIR #2 (DF #2) OR BETTER.
- ALL FRAMING LUMBER SHALL BE KILN DRIED TO 15% MC (KD-15).
 ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN GENERAL NOTES, IN DETAILS, OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL
- DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
 FASTEN ALL BEAMS TO COLUMNS w/ (4) 3"x0.131" TOENAILS
- (MIN.), TYP. U.N.O.
 PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS & HOLD-DOWNS CONTINUOUS TO FOUNDATION/BEARING. BLOCKING TO MATCH POST ABOVE.
- ENGINEERED LUMBER TO MEET OR EXCEED THE FOLLOWING:
 LSL MEMBERS Fb=2325 PSI; Fv=310 PSI; E=1.55x10⁶ PSI
 LVL MEMBERS Fb=2600 PSI; Fv=285 PSI; E=2.0x10⁶ PSI
- GLB MEMBERS Fb=2400 PSI; Fv=265 PSI; E=1.8x10⁻⁶ PSI; DF/DF
 ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
- LVL MEMBERS Fb=2400 PSI; FcII=2500 PSI; E=1.8x10⁶ PSI
 FACE NAIL MULTI-PLY 2x BEAMS & HEADERS W/ 3-ROWS OF 3"x0.131" NAILS (MIN.) @ 12" O.C. STAGGERED. APPLY NAILING FROM
- ALL MEMBERS SPECIFIED AS MULTI-PLY 1³/₄" SHALL BE FASTENED
- ALL MEMBERS SPECIFIED AS MULTI-PLY 174" SHALL BE FASTENEL TOGETHER PER MANUFACTURER. EQUIVALENT WIDTH SOLID MATERIAL MAY BE USED AS EQUAL.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS w/P.A.F.s ('HILTI' X-U PINS OR EQUAL (0.157" DIA. x 2" LONG MIN.)) @ 16" O.C. STAGGERED, OR 1/2" DIA. BOLTS @ 48" O.C., STAGGERED.
 REFER TO IRC FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. U.N.O.

<u>FLOOR FRAMING</u>

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA AND SHALL RUN CONTINUOUS OVER SUPPORTS WHEREVER POSSIBLE. ALL LOADS SHOWN ON PLAN FOR MANUF. DESIGNS ARE ASD LEVEL LOADS, U.N.O. (EXCLUDES STONE/MARBLE OR WET BED
- CONSTRUCTED FLOORS CONTACT M&K FOR EXCLUDED DESIGNS).
 ALL METAL I-JOIST/TRUSS HANGERS SHALL BE SPECIFIED BY
 LOIST/TRUSS MANUEACTURED IN ESC OTHERWISE NOTED
- I-JOIST/TRUSS MANUFACTURER, UNLESS OTHERWISE NOTED. • I-JOIST/TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO
- ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
 FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C., EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND CROON // EDGEC. FACTENT TO FRAMING MEMOREPS (M/ CLUE AND)
- GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND 2 ¹/₂" × 0.131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD.
 ALL FLUSH CONNECTIONS SHALL BE CONNECTED WITH HANGER APPROPRIATE FOR MEMBER SIZE. U.N.O.
- \bullet FASTEN HANGERS TO SINGLE PLY FLUSH BEAMS w/ $I_2^{\prime\prime}$ LONG NAILS.

ROOF FRAMING

- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ (3) 3"x0.131"
 TOENAILS (MIN.) & (1) 'SIMPSON' H2.5T CLIP @ ALL BEARING POINTS.
 PROVIDE (2) 'SIMPSON' H2.5T CLIPS AT 2-PLY GIRDER TRUSSES & 3-PLY GIRDER TRUSSES AT ALL BEARING POINTS.
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS $w/2\frac{1}{2}$ " × 0.131" NAILS @ 6"o.c. AT PANEL EDGES & @ 12" O.C. AT INTERMEDIATE SUPPORTS. ROOF SHEATHING SHALL EXTEND BELOW ALL INSTANCES OF OVERFRAMING. BLOCKING SHALL BE INSTALLED AS REQUIRED TO LIMIT ROOF SHEATHING SPANS TO 24" MAX.
- ALL METAL HANGERS SHALL BE SPECIFIED BY THE TRUSS MANUFACTURER, UNLESS OTHERWISE NOTED.
- ROOF TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- ROOF TRUSS SHOP DRAWINGS & CALCULATIONS SHALL BE PREPARED BY A WASHINGTON STATE LICENSED ENGINEER AND SHALL BE DESIGNED FOR UNBALANCED SNOW LOADING PER ASCET-10, SECTION 7.6.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08
 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- FASTEN OVER-FRAMED TRUSS SETS TO TRUSSES BELOW w/ (2)
 3"x0.131" TOENAILS AT EA. TRUSS.
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (UP TO 6' TRIB.) w/2x6 LEDGER FASTENED TO FRAMING w/(3) 3"x0.131" NAILS @ 16" o.c
 FASTEN ALL INTERIOR NON-BEARING PARTITION WALLS TO TRUSS BOTTOM CHORD ABOVE WITH SIMPSON STC CLIPS AT 24" o.c. MAX.
- PROVIDE BLOCKING BETWEEN THE TRUSS BOTTOM CHORDS AS REQUIRED FOR THE PARALLEL CONDITIONS.

TYPICAL STRUCTURAL NOTES & SCHEDULES

| V | | |
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| | | |
| | REFER TO S-0.0 FOR | |
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| o | | BEARING WALL ABOVE (B.W.A.), OR SHEARWALL ABOVE (S.W.A.) |
|---|---------------------------------------|---|
| o | | BEAM / HEADER |
| o | | INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL w/ 3" o.c. EDGE NAILING |
| o | · · · · · · · · · · · · · · · · · · · | INDICATES AREA OF ROOF OVERFRAMING |
| | JL METAL | HANGER |
| | H INDICA BLOCK | TES POST ABOVE. PROVIDE SOLID ING UNDER POST OR JAMB ABOVE. |
| | | TES HOLDOWN. |
| | | |

HOLD-DOWN SCHEDULE

SIMPSON HTT4 HOLD-DOWN

SIMPSON MSTC66 STRAP TIE

%" DIA. THREADED ROD INTO CONCRETE FOUNDATION.

LEGEND

PROVIDE IO" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. RECOMMENDATIONS. DO NOT

LOCATE ANCHORS WITHIN I $\frac{3}{4}$ " OF EDGE OF

• [] INTERIOR BEARING WALL

(24" END LENGTH)

SPECIFICATION

SYMBOL

HD-I

HD-7

FOUNDATION.

M&K project number: 251-2100 NJM project mgr: RJD drawn by: 01-27-2 issue date: **REVISIONS:** initial: date: 03-23-21 Arch revisions 06-08-21 code update RJD RJD SIGN Ш $\overline{\square}$ YEN HD-5 SIMPSON CSI6 STRAP TIE (14" END LENGTH) AN * UTILIZE SIMPSON "SET-XP" EPOXY SYSTEM TO FASTEN Ц NO Framing 76TH Washing1 OOR ND С И \sim L Ι ()S H Ŋ MER(**T** sheet:

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MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING

PROVIDE/VERIFY ½" DIA. A.B. w/ 3"x3"x¼" PLATE WASHERS @ 6'-0"o.c. (MAX.) FROM SILL TO FND.

PROVIDE/VERIFY (2)2x (MIN.) @ EA. EXIST. HD

NOTE #1: PROVIDE INT.16"OSB OR ¹⁵32" PLYWOOD SHT'G & FASTEN PER TYP. EXT. SHTG. SPEC. (SEE S-0.0)

EXISTING FND PLANS HAVE BEEN REVIEWED FOR MINIMUM REQUIRED REINFORCEMENT AND EXISTING FOUNDATION WALLS AND FOOTING SIZES ARE ADEQUATE TO SUPPORT ALL CODE REQUIRED LOADS

2ND FLOOR FRAMING PLAN SCALE: 1/4"=1'-0"

| | © copyright | MULHERN & KULP Structural Engineering, Inc. |
|---|--|---|
| | | A MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING 7220 Trade Street, Suite 350, San Diego, CA 92121 p619-650-0010 > mulhemkulp.com |
| | M&K project project mgr drawn by: issue date: REVISIONS: date: 03-23-21 ARCH REVISIC 06-08-21 CODE UPDATE | t number: 251-2100 : NJM RJD 01-27-2 initial: RJD RJD |
| HOLD-DOWN SCHEDULE NL SPECIFICATION -1 SIMPSON HTT4 HOLD-DOWN | | YEN DESIGN |
| SIMPSON CSI6 STRAP TIE (I4" END LENGTH) SIMPSON MSTC66 STRAP TIE (24" END LENGTH) SIMPSON "SET-XP" EPOXY SYSTEM TO FASTEN THREADED ROD INTO CONCRETE FOUNDATION. THREADED ROD INTO CONCRETE FOUNDATION. PER MANUF. RECOMMENDATIONS. DO NOT ANCHORS WITHIN I ³/₄" OF EDGE OF TON. LEGEND IIIIII INTERIOR BEARING WALL EIIII INTERIOR BEARING WALL BEAM / HEADER INTERIOR SHEAR WALL ABOVE (B.M.A.), OR SHEARWALL ABOVE (S.M.A.) INDICATES AREA OF ROOF OVERFRAMING INDICATES AREA OF ROOF OVERFRAMING INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE. INDICATES HOLDOWN. | 2nd Floor Framing Plan | 7511 SE 76TH Mercer Island, Washington |
| REFER TO S-0.0 FOR | sheet: | |

S-2.0

seal:

selle.

REMOVE EXISTING DECK JOISTS (TYP.) PROVIDE/VERIFY (2)2x (MIN.) @ EA. EXIST. HD

4x6 MIN HDR @ ALL NEW EXT. OPENINGS (TYP. U.N.O.) B3

NOTE #1: PROVIDE INT.76"OSB OR 15/32" PLYWOOD SHT'G \$ FASTEN PER TYP. EXT. SHTG. SPEC. (SEE S-0.0) NOTE #2: PROVIDE INT.76"OSB

OR 15/32" PLYWOOD SHT'G & FASTEN PER 3"O.C. EDGE NAILING SPEC. (SEE S-0.0)

NOTE #3: PROVIDE CSI6 STRAP FROM DBL TOP PLATE TO UNDERSIDE OF EXISTING BM. PROVIDE 13" MIN. END LENGTH ON DBL TOP PLATE

BOT. OF WALL TO NOTE #4: PROVIDE CSI6 REMAIN (TYP. OF 2) STRAP FROM DBL TOP PLATE TO UNDERSIDE OF NEW 2x BLOCKING BETWEEN EXIST. F.J. PROVIDE FULL DEPTH 2x BLOCKING BETWEEN EXIST. F.J. FOR FIRST (3) BAYS OR PROVIDE/VERIFY 3'-0" MIN. PROVIDE 13" END 3"O.C. EDGE NAILING LENGTH ON DBL TOP PLATE (SEE NOTE ON S-0.0) AND 3'-0" END LENGTH ON BLOCKING.

> NOTE #5: PROVIDE CSI6 STRAP FROM DBL TOP PLATE TO UNDERSIDE OF NEW 2x BLOCKING BETWEEN EXIST. F.J. PROVIDE 2x FLAT BLOCKING BETWEEN EXIST. F.J. BOTTOM CHORDS FOR 3'-0" MIN. PROVIDE 13" END LENGTH ON DBL TOP PLATE AND 3'-0" END LENGTH ON BLOCKING

| ╞ | OLD-DOWN SCHEDULE | |
|--|---|--|
| SYMBOL | SPECIFICATION | |
| HD-I | SIMPSON HTT4 HOLD-DOWN | |
| HD-5 | SIMPSON CSI6 STRAP TIE (14" END LENGTH) | |
| HD-7 | SIMPSON MSTC66 STRAP TIE (24" END LENGTH) | |
| * UTILIZE SIMPSON "SET-XP" EPOXY SYSTEM TO FASTEN $\frac{1}{20}$ " DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 10" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN 1 $\frac{3}{4}$ " OF EDGE OF FOUNDATION. | | |
| | LEGEND | |
| o 🔲 | IIII INTERIOR BEARING WALL | |
| • <u> </u> | BEARING WALL ABOVE (B.W.A.), OR SHEARWALL ABOVE (S.W.A.) | |
| o | BEAM / HEADER | |
| • | ■ INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL w/ 3" o.c. EDGE NAILING | |
| | | |
| o | INDICATES AREA OF ROOF OVERFRAMING | |
| • | METAL HANGER | |

INDICATES HOLDOWN.

TYPICAL STRUCTURAL

NOTES & SCHEDULES

ROOF FRAMING PLAN SCALE: 1/4"=1'-0"

| sneet: | ROOF FRAMING PLAN | | issue date: REVISIONS: date: 03-23-2 ARCH REVISIONS: 06-08-2 code UPDATE | M&K projec project mgr drawn bv: | | seal: |
|--------|---------------------------|------------|--|--|--|--|
| 5-3 | 7511 SE 76TH | YEN DESIGN | C DNS I E | t number: 25 ' : | MULHERN+KULP RESIDENTIAL STRUCTURAL ENGINEERING | OLAS J. M OLAS J. M OF WAS OF |
| 6.0 | MERCER ISLAND, WASHINGTON | | initial: RJD RJD | 1-21001 NJM R.ID | 7220 Trade Street, Suite 350, San Diego, CA 92121 p 619-650-0010 > mulhemkulp.com | ARTICAL |

| ⊨ | OLD-DOWN SCHEDULE |
|--|--|
| SYMBOL | SPECIFICATION |
| HD-I | SIMPSON HTT4 HOLD-DOWN |
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| * UTILIZE SIMPSON "SET-XP" EPOXY SYSTEM TO FAST %" DIA. THREADED ROD INTO CONCRETE FOUNDATION PROVIDE IO" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUF. RECOMMENDATIONS. DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION | |

REFER TO S-0.0 FOR

TYPICAL STRUCTURAL

NOTES & SCHEDULES

4x6 MIN HDR @ ALL NEW EXT. OPENINGS (TYP. U.N.O.) BI

PROVIDE VALLEY TRUSS OVERFRAMING AS REQ'D (TYP.)

STRAP DETAIL SCALE: 3/4"=1'-0"

SPLICE

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